Best choice.
BySoft 7

Construct and calculate parts, create cutting plans and bending programs, plan and monitor manufacturing processes: Modern sheet metal manufacturing is no longer imaginable without powerful software like BySoft 7. BySoft 7 offers a comprehensive range of functions and is still easy to operate. This way, you maintain an overview, while completing jobs quickly, affordably, and reliably. BySoft 7 – Make it easy.

Construct Parts
BySoft 7 supports your parts construction with powerful 3D-CAD, widely distributed across the world. BySoft 7 provides exactly those tools you need for a specific situation, communicates a clear idea of the immediate status of the model, and is intuitive to use. Thus, you quickly and confidently achieve correct 3D models of the parts to be manufactured.
Create Cutting Plans
BySoft 7 automatically ensures that sheet metal, tubes, and profiles are used completely and nests as many parts as technically possible. To do this, BySoft 7 has countless functions, for example, various nesting processes. What’s more, BySoft 7 optimizes your cutting processes and automatically selects each optimal cutting technology.

Create Bending Programs
With BySoft 7, you can create perfect bending programs. Bending sequence, backgauge position, and tool plan are detected automatically so that the bending process can start more quickly. Furthermore, BySoft 7 simulates the bending sequence and displays possible collisions automatically. This ensures safety, saves even more time and material, and shortens job throughput times.

Plan and Monitor Manufacturing Processes
Thanks to BySoft 7, cutting and bending jobs are completed quickly and with little effort. Because: You maintain an overview of your manufacturing processes and make informed decisions. Thus, you deliver on time and with favorable conditions. Furthermore, BySoft 7 automatically plans, initiates, and monitors part production and offers immediate access to all relevant production and machine data. This is how BySoft 7 guarantees maximum transparency.
Requirements and solutions

BySoft 7 consists of four individual modules
- Sheet Cutting
- Bending
- Tube Cutting
- Plant Manager

Depending on need, the modules can be purchased either individually, in personal combinations, or as a complete package.

Increase efficiency
- The process-oriented design and clear construction of BySoft 7
- Simple and intuitive operator guidance from parts to programmed plans
- Efficient import and file cleaning

Reduce costs
- Save time and materials by selecting the ideal steps
- Fast throughput times thanks to automatic programming
- Early identification of manufacturing conflicts

Simplify processes
- Professional 2D/3D CAD system
- Flexible cutting plan and bending program programming
- Optimal production processes due to transparent planning

How is BySoft 7 integrated into the existing IT environment?

Job data

2D/3D data

Production data

Laser cutting

Bending

Automation
Which options do the individual modules offer?

<table>
<thead>
<tr>
<th>Function</th>
<th>Sheet Cutting</th>
<th>Bending</th>
<th>Tube Cutting</th>
<th>Plant Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>2D/3D-CAD Standard</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
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<tr>
<td>Automatic unfolding from 3D to 2D</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Parts Import</td>
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<td>●</td>
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<tr>
<td>Bending Technology</td>
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<tr>
<td>Cutting Technology</td>
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<tr>
<td>Parts Nesting</td>
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<tr>
<td>TiltPrevention</td>
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<tr>
<td>Calculation of Cutting and Bending Time</td>
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<td>●</td>
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<tr>
<td>Simulation of Cutting and Bending</td>
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<tr>
<td>Cutting/Bending Programs Export</td>
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<tr>
<td>Sorting and stacking*</td>
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<tr>
<td>Automatic Job Import</td>
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<td>●</td>
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<tr>
<td>Job Management</td>
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<td>Parts Management</td>
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<tr>
<td>Management of Operation Steps (Cutting/Bending)</td>
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<tr>
<td>Cutting Plans Management</td>
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<tr>
<td>Automated nesting of cutting plans</td>
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<td>Production Data Export</td>
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<tr>
<td>Machine Utilization</td>
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<td>Notification Service</td>
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<tr>
<td>Optimization of Production Sequence for Bent Parts</td>
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<td>Production Monitoring</td>
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<td>Parts removal</td>
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<td>Calculate part costs</td>
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<td>Quick Support</td>
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<td>Planning</td>
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<td>Production</td>
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<tr>
<td>Statistics</td>
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</tbody>
</table>

* = Option

How can the individual modules be combined?

<table>
<thead>
<tr>
<th>Module</th>
<th>Combinations</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>01 02 03 04 05 06</td>
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<tr>
<td>Sheet Cutting</td>
<td>● ● ●● ●●</td>
</tr>
<tr>
<td>Bending</td>
<td>● ● ●</td>
</tr>
<tr>
<td>Tube Cutting</td>
<td>● ●</td>
</tr>
</tbody>
</table>
Sheet Cutting

With this module, you can construct parts and import and edit existing CAD data. You can create perfect cutting plans for processing sheet metal and other 2D materials

Customer benefits

- Thanks to BySoft 7, you can construct parts with powerful and worldwide distributed 2D and 3D CAD
- You can create cutting programs in next to no time because BySoft 7 is clearly structured and turns less practiced users into programming professionals
- You will reduce part costs because raw material is used completely. To do so, BySoft 7 has comprehensive options, for example, various nesting processes
- With the touch of a button, BySoft 7 always selects the correct cutting technology and implements it with ease
- Thanks to countless functions, BySoft 7 provides reliable processes. You profit thanks to perfectly cut parts and a high machine usage rate
- Optional with BySort: Create sorting plans using an automated procedure for an optimized stacking of your parts
1 Parts Construction
2 Parts Nesting
3 Residual sheet and other miscellaneous shapes can (4) be used as raw material
Bending

With this module, you can model parts and import and edit existing CAD data. You can create perfect unfolding and bending programs.

Customer benefits
■ Thanks to BySoft 7, you can construct parts with powerful and worldwide distributed 2D and 3D CAD
■ You can use your pressbrake capacity in its entirety because parts are no longer programmed on the machine, but rather in BySoft 7
■ All relevant machine and tool data for your pressbrake(s) are stored in BySoft 7. Thus, you achieve perfect unfolding. The bend allowance values were determined empirically by experts
■ Thanks to full simulation of bending sequences, you can prevent collisions and costly errors
■ You can prepare jobs more quickly because BySoft 7 determines and suggests bending sequences, backgauge positions, and tool plans
■ Optimize set-up times when manufacturing several bent parts.
BySoft 7 creates and proposes an ideal processing sequence
1 3D Parts Construction
2 3D Data Executed Perfectly
3 Calculation and Simulation of Bending Sequence
4 Calculation of Tool and Set-Up Plan
Tube Cutting

With this module, you can construct parts and import and edit existing CAD data. You can create perfect cutting plans for processing tubes and profiles

Customer benefits

- Thanks to BySoft 7, you can construct parts with powerful and worldwide distributed 2D and 3D CAD
- Even complex tube and profile cutting programs can be created in the blink of an eye. Because: BySoft 7 is clearly structured and turns less practiced users into programming professionals
- By turning sections and parts, these can be nested with even more efficiency. Raw material is used completely and part costs are further reduced
- With the touch of a button, BySoft 7 always selects the correct cutting technology and implements it with ease
- Thanks to countless functions, BySoft 7 provides reliable processes. You profit thanks to perfectly cut parts and a high machine usage rate
1 Easy Parts Construction
2 Unfolding 3D Data
3 Nesting with Shared Cut Lines
Plant Manager

Create maximum transparency and efficiency in your sheet processing. The Plant Manager plans and monitors manufacturing processes.

What is the Plant Manager?
The Plant Manager is a unique tool with which you can plan and monitor all laser cutting and bending processes in both an automatic and informed way.

Which tasks does the Plant Manager assume?
Each ERP system is subdivided into individual work cycles in the production chain. One of these cycles is the general planning of cutting and bending processes. Here, the Plant Manager assesses and refines the planning automatically. In this way, individual steps and time are saved, costs are reduced, and error sources are eliminated. Furthermore, the Plant Manager initiates and monitors parts production and provides you with comprehensive statistical data.
Customer benefits

- You can manufacture parts more quickly, at a lower cost, and with less effort
- Your processes will run more reliably because manual entries are no longer necessary and machines are regularly maintained
- You retain a complete overview of your production and the condition of your machine systems
- You receive data with which you can further increase your production efficiency
Robot Manager

The comprehensive and high-performance programming software for automated bending. With the Robot Manager, you control and simulate the robotics that are integrated into Bystronic’s bending automation solutions.

What is the Robot Manager?
The Robot Manager is a software solution for the macro programming of bending robots, which form a part of Bystronic’s bending automation. With the Robot Manager’s 3D user interface, users create and simulate the required automation steps within an offline programming environment. This includes automated bending procedures as well as the loading of the parts that are to be bent and the unloading and stacking of the completed bent parts. The Robot Manager is based on the data of the parts to be bent that are programmed in BySoft 7 and is directly integrated into the BySoft 7 programming process.

Customer benefits
- Integrated programming of robots and the parts that are to be bent
- Process-oriented and intuitive operator guidance
- Efficient generation of programs thanks to automated programming procedures and integrated test functions
- Direct interfacing of robot programming with the programming process in BySoft 7 for the parts that are to be bent
Bystronic Collections

Not all products listed in this brochure are available in all countries.

This brochure may show parts that are not standard equipment, but are available as options. For the better visibility of machine details, some safety covers may have been opened or removed for these pictures. The right to make changes to dimensions, construction, and equipment is reserved.

ISO-9001-certified
Best choice.